AMENDMENTS TO THE SPECIFICATION

Please amend the abstract beginning at page 13, line 1, as follows:

ABSTRACT

~~The present invention relates to a~~ A device for the thermal decomposition of ~~volatile compounds and deposition of particles which are then formed, which includes at least the following characteristic features a pressure vessel (1), at least one reaction tube (2), the open end (2e) of which extends into the pressure vessel and the other end of which is located outside the pressure vessel and is provided with a gas feed (3), the longitudinal axis of the reaction tube is oriented in the direction of gravity and parallel to the longitudinal axis of the pressure vessel (1d), and the reaction tube can be heated (2a) on the gas inlet side and cooled (2b) on the gas outlet side, the pressure vessel (1), in its lower part, has a collection cone (1a), the open end of the reaction tube(s) (2e) extending into the gas space of the collection cone (1b), the collection cone (1a) is connected to an outlet lock (6) for powder (P), and a gas outlet unit (7), which is equipped with a gas guide (7a), the gas inlet region (7b) of which is in communication with the gas space (1b) of the collection cone (1a), a filter system (8) and a gas outlet (9),~~ a volatile compound, and for deposition of particles which are formed by the decomposition, includes (a) a pressure vessel, (b) at least one reaction tube located inside the pressure vessel such that, an open end of the reaction tube extends into the pressure vessel and an other end of the reaction tube is located outside the pressure vessel and is provided with a gas feed, wherein a longitudinal axis of the reaction tube is oriented in the direction of gravity and parallel to a longitudinal axis of the pressure vessel, and wherein the reaction tube can be heated on a gas inlet side and cooled on a gas outlet side, wherein the pressure vessel, in its lower part, comprises a collection cone, wherein the open end of the at least one

reaction tube extends into a gas space of the collection cone, wherein the collection cone is connected to an outlet lock for particles, and (c) a gas outlet unit located mainly inside the pressure vessel, the gas outlet unit comprising a gas guide, a gas inlet region, wherein the gas inlet region is in communication with the gas space of the collection cone, a filter system, and a gas outlet, which is located outside the pressure vessel.